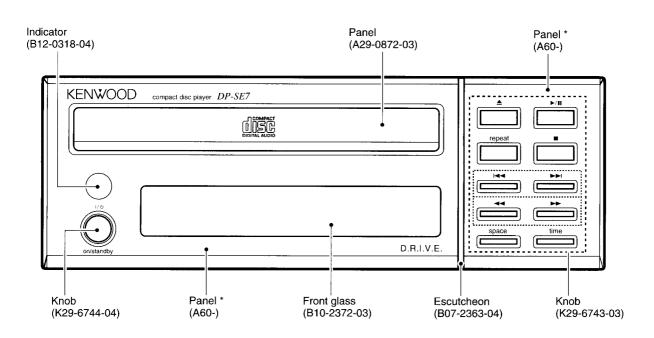
COMPACT DISK PLAYER

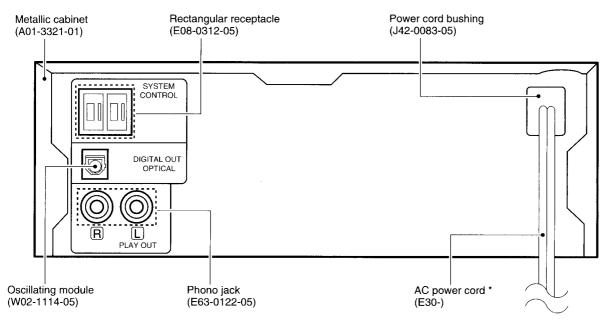
DP-SE7/SE7(G)/SE9 SERVICE MANUAL

(HM-701)

KENWOOD

©1997-10/B51-5371-00 (K/K) 3191





In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

Illustration is DP-SE7Mtype.
* Refer to parts list on page 17.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

DANGER: Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM

Refer to DP-SA7 service manual (B51-5243-00) if you require Disassembly for repair in detail.

CONTENTS / EXTERNAL VIEW

Contents

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SPECIFICATIONS	Back cover

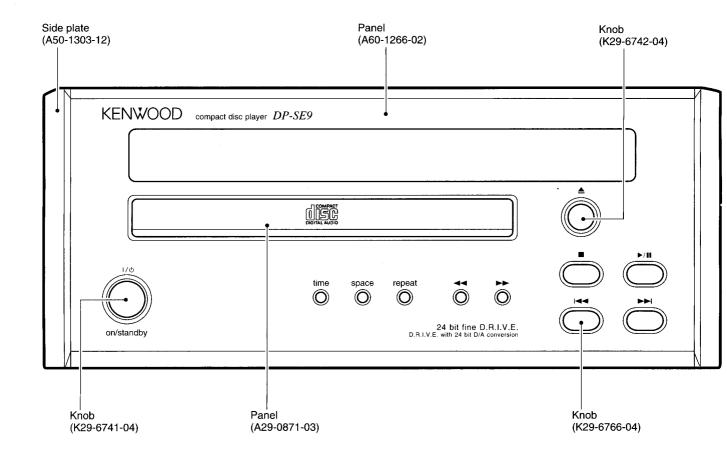


Illustration is DP-SE9.

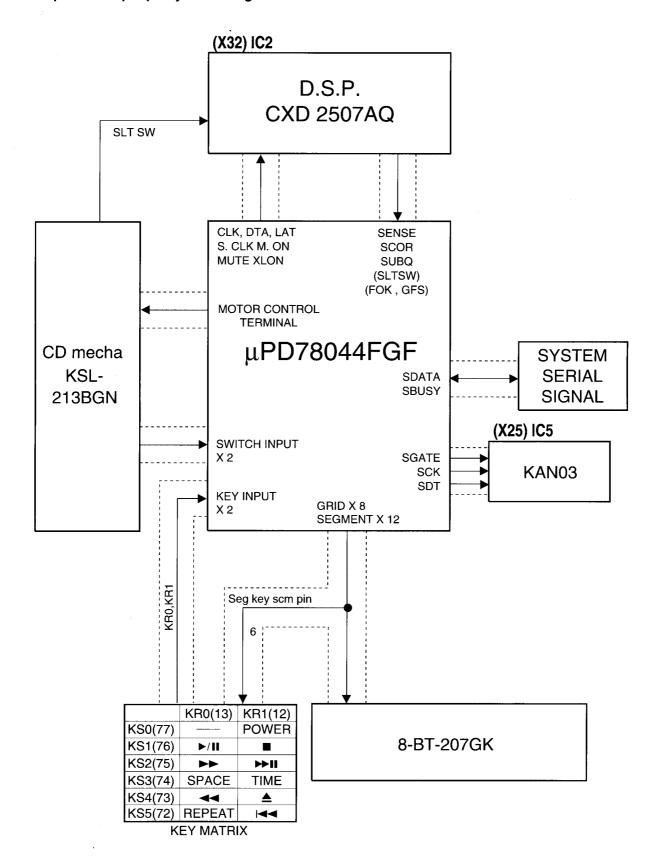
System configuration

ĺ	SYSTEM NAME	RECEIVER	CD PLAYER	SPEAKER
	HM-701	R-SE7	DP-SE7	LS-SE7
	HM-901	R-SE9	DP-SE9	LS-SE9

CIRCUIT DESCRIPTION

1. Microprocessor

1-1. Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

1-2 Pin description

(uPD78044FGF-071 : X25, IC4)

PIN No.	PIN NAME	I/O	DESCRIPTION
1~7	Grid 2G~8G	0	FL Digit control (Grid 2G~8G)
8	Vdd	0	Power supply (+5)
9	SQCK	0	Q-data read clock output.
10	STBY	0	Not use (OPEN)
11	SUBQ	i	Q-data (or SLT SW) input
12	KR 1	1	Key return input 1
13	KR 0		Key return input 0
14~16	NC	ı	Not use (PULL DOWN)
17	RESET	ı	Reset input
18, 19	NC	1	Not use (PULL DOWN)
20	AVss		Not use (GND)
21~24	NC	1	Not use (PULL DOWN)
25	SDT	0	Enable output to KAN03
26	SCK	0	Clock output to KAN03
27	S GATE	0	Data output for KAN03
28	NC	I	Not use
29	AVdd	_	Not use (+5V)
30	AVref		Not use (GND)
31	DEFECT	l i	Scratch disk compel sat
32	XT2	_	Not use (OPEN)
33	Vss		GND
34	X1	1	System clock
35	X2	-	System clock
36	RMUTE	0	Analog mute
37	CLK	0	CXD2507AQ clock output
38	LATCH	O	CXD2507AQ latch output
39	DATA	0	CXD2507AQ data output
40	SENSE		SENSE/GFS/F.OK input
41	D.S	0	Not use
42	S.DATA	1/0	Serial DATA I/O
43	S.BUSY	1/0	Serial BUSY I/O
44	SCOR	1 1	Sub-code synch detect
45	NC	i	Not use (PULL DOWN)
46	M.ON	0	Focus lock compensation
47	REMOCON	i	REMOCON
48	Vpp	_	GND
49	CLOSE SW	ī	Tray close (L : close)
5 0	OPEN SW		Tray open (L : open)
51	NC	i	Not use (PULL DOWN)
52	Vdd		Power supply (+5V)
53	OPEN MOTOR	0	Motor [OPEN] (H : OPEN/T.U.DOWN)
54	CLOSE MOTOR	0	Motor [CLOSE] (H : CLOSE/T.U.UP)
55~64	NC	0	Not use (OPEN)
65~70	Sa~Sf	0	FL Segment (SEG Sa~Sf)
71	Vlord	_	FL driver power supply (-30V)
72~77	SEG Sg~SI/KS 5~0	0	FL Segment Sg~SI and key scan (KS5~KS0)
72~77 78, 79	NC	0	Not use (open)
80	GRID 1G	0	FL digit (Grid 1G)
ου 	GITID IG		i = digit (dita 10)

CIRCUIT DESCRIPTION

2. Test mode

MODE "0 0": Use for Test or alignment
Setting the test mode: While pressing the "REPEAT" key, plug the AC cord
into wall output.

No.	Key	Display	Operation	Remarks
1	PLAY/ PAUSE	03	(1)Focus servoON (2) Tracking servoOFF (3) Feed servoOFF	TE-adjustment
	▶/II	05	(1) Focus servoON (2) Tracking servoON	F-GAIN / T-GAIN
			(3) Feed servoON	FE-B adjustment
2	UP ►►		All display ON → All display OFF	
3	FB ◄ ◀	01	Pick manual feed (outside → inside)	Stop mode only Time display goes off
		05	FB operation is available	
4	FF ►►	01	Pick manual feed(inside → outside)	Stop mode only Time display goes off
		05	FF operation is available	
5	STOP ■	01	Pick-up initialize	·
6	OPEN / CLOSE ▲		Tray open / close	
7	DOWN ⊢ ◀◀	01	Cancel the test mode, and return to normal mode.	Play track No.01

ADJUSTMENT

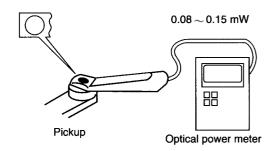
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	PLAYER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
	le pressing the "REPE fer to test mode (MOD		ne AC ON.				
1	LASER POWER	_	Apply the sensor section of optical power meter on the pickup lens.	Press the PLAY/PAUSE key, then confirm that the LED is "03".	-	On the power from 0.08 to 0.15 mW, when the diffraction grating is correctly aligned with the RF level of 0.6 Vp-p or more.	(a)
2	FOCUS ERROR BIAS	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN3 pin 1) CH2: TE (CN3 pin 6)	Press the PLAY/PAUSE key, then confirm that the LED is "05".	FE BIAS VR2	Optimum eye pattern	
3	TRACKING ERROR BALANCE	Connect an oscilloscope as follows. Type 4 CH1: RF (CN3 pin 1) CH2: TE (CN3 pin 6)		Press the PLAY/PAUSE key, then confirm that the LED is "03".	TE BALANCE VR1	Symmetry between upper and lower patterns	
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.2 kHz, 50mVrms to CN3 pin 5-6.	Connect a LPF to CN3 pin 5-6 to which you connect an oscilloscope or AC voltmeters.	Press the PLAY/PAUSE key, then confirm that the LED is "05".	TRACKING GAIN VR3	Two VTVMs should read the same value.	(e)

Note:

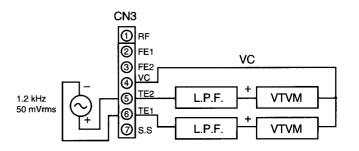
Type 4 disc : SONY YEDS-18 Test Disc or equivalent.(KTD-0*)

LPF: Around 47 k Ω + 390 pF or so. Step 1~4 are in Test Mode.

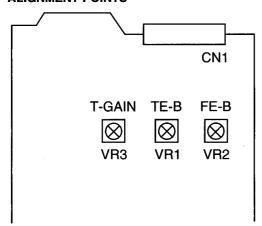
(a) Laser power



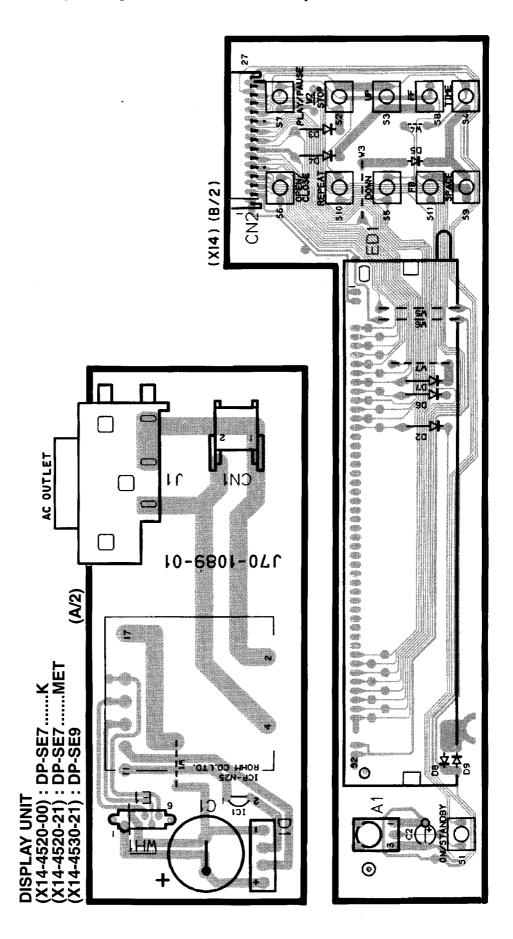
(e) Tracking gain



ALIGNMENT POINTS



2

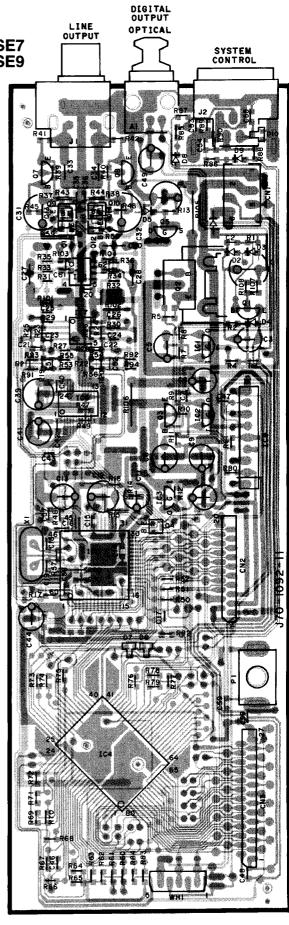


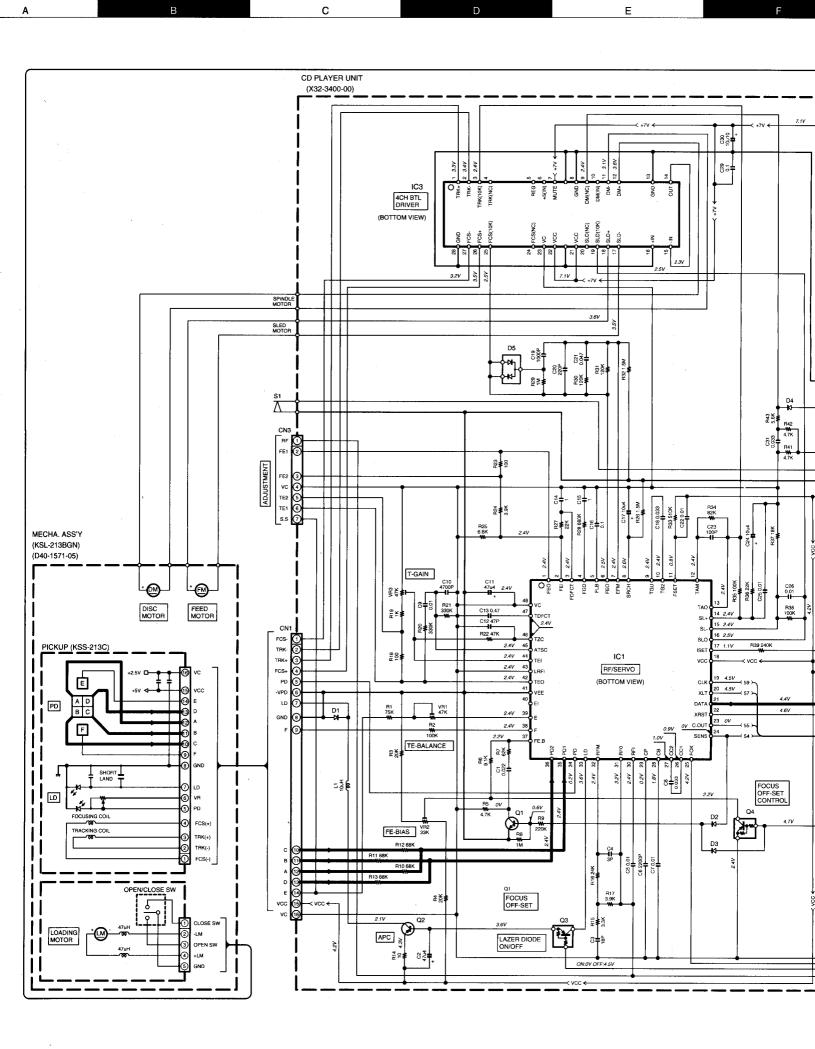
PC BOARD(Component side view)

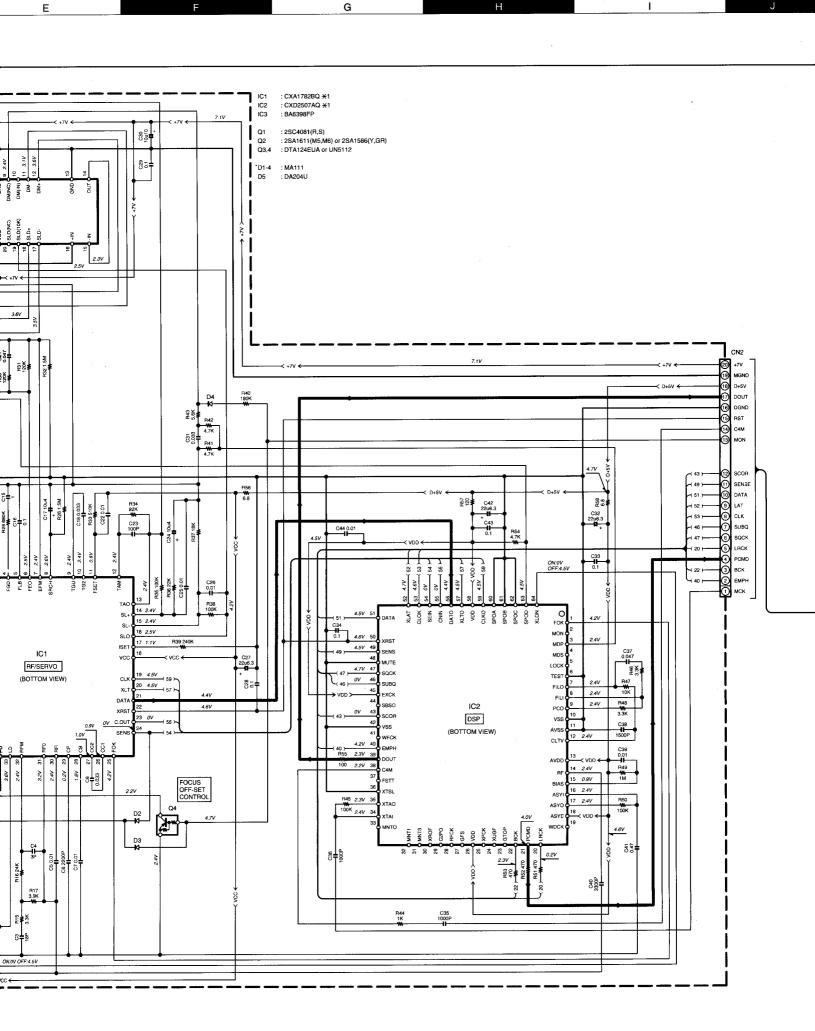
ELECTRIC UNIT (X25-6000-00) : DP-SE7 (X25-6000-01) : DP-SE9

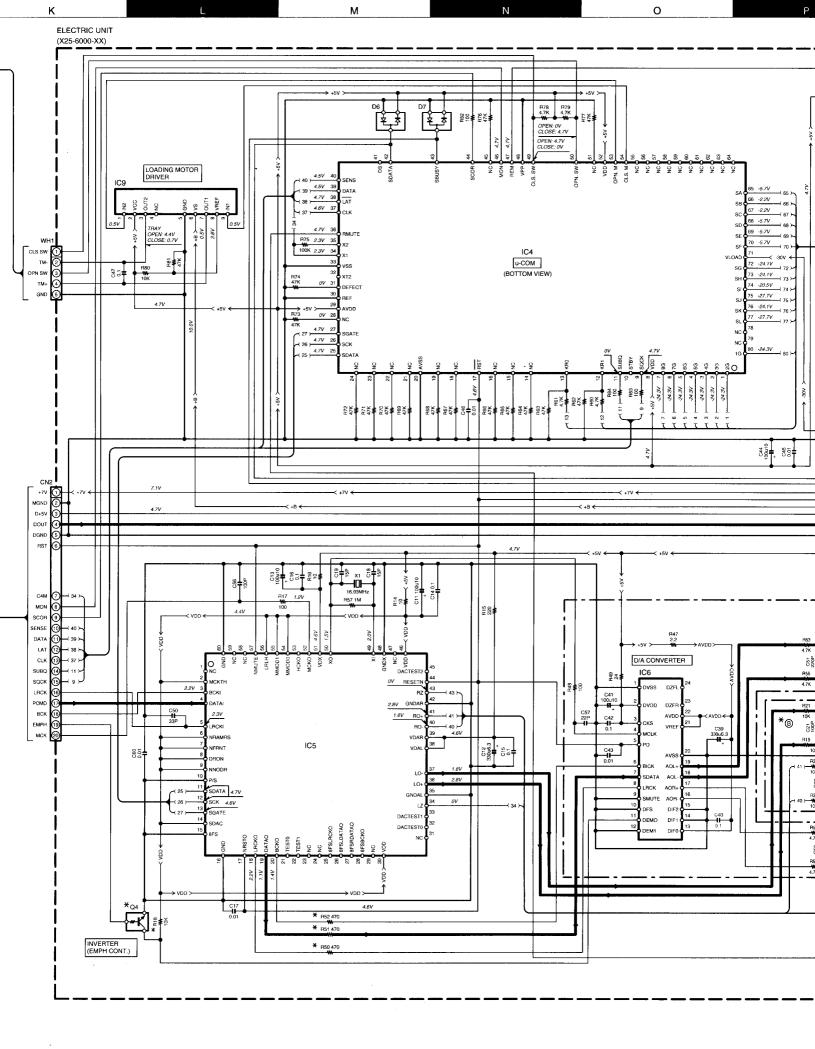
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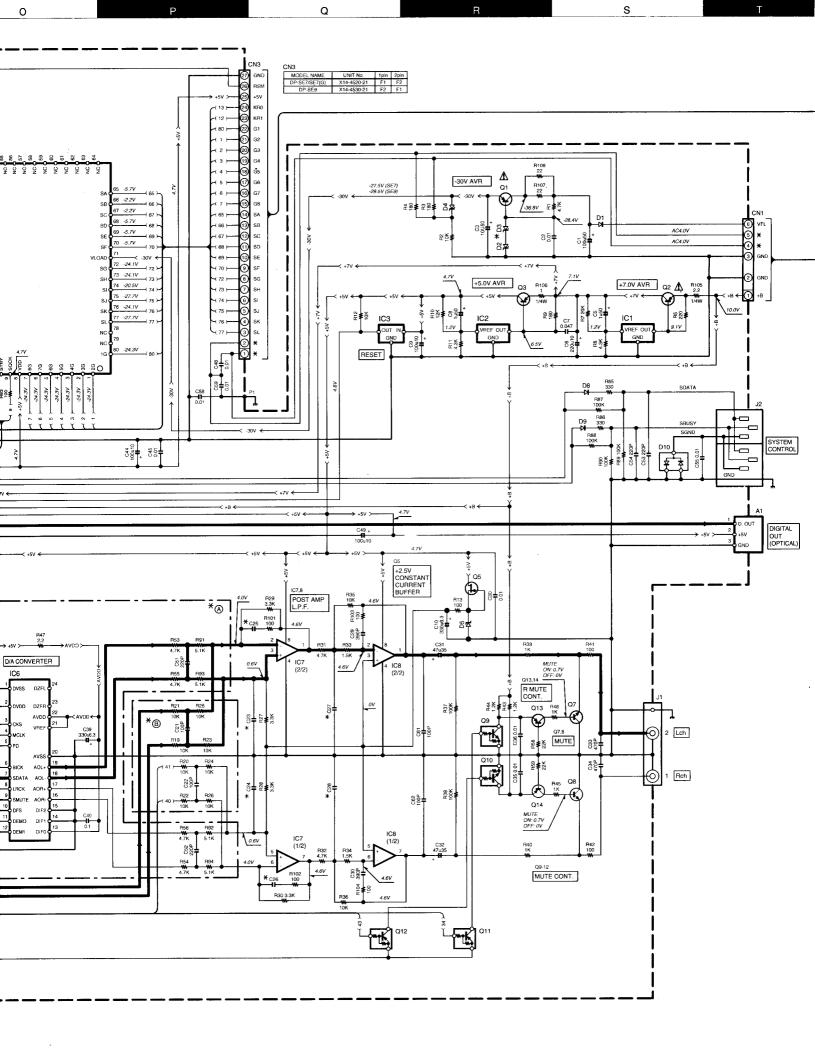
CD PLAYER UNIT (X32-3400-00)

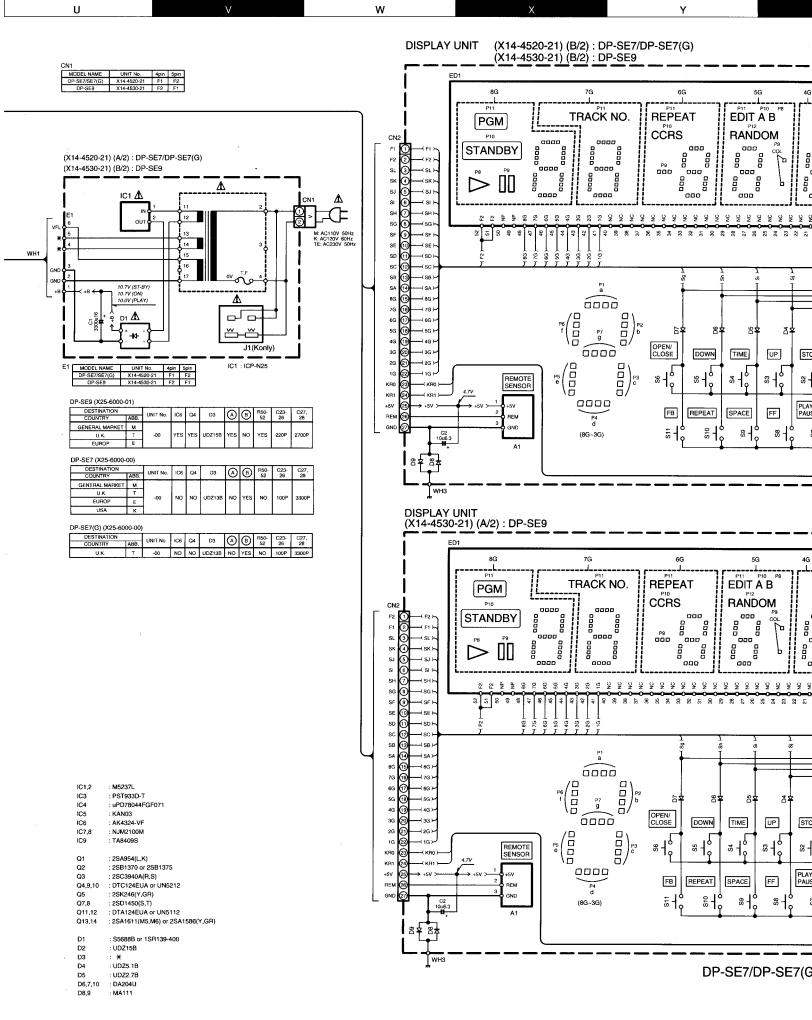


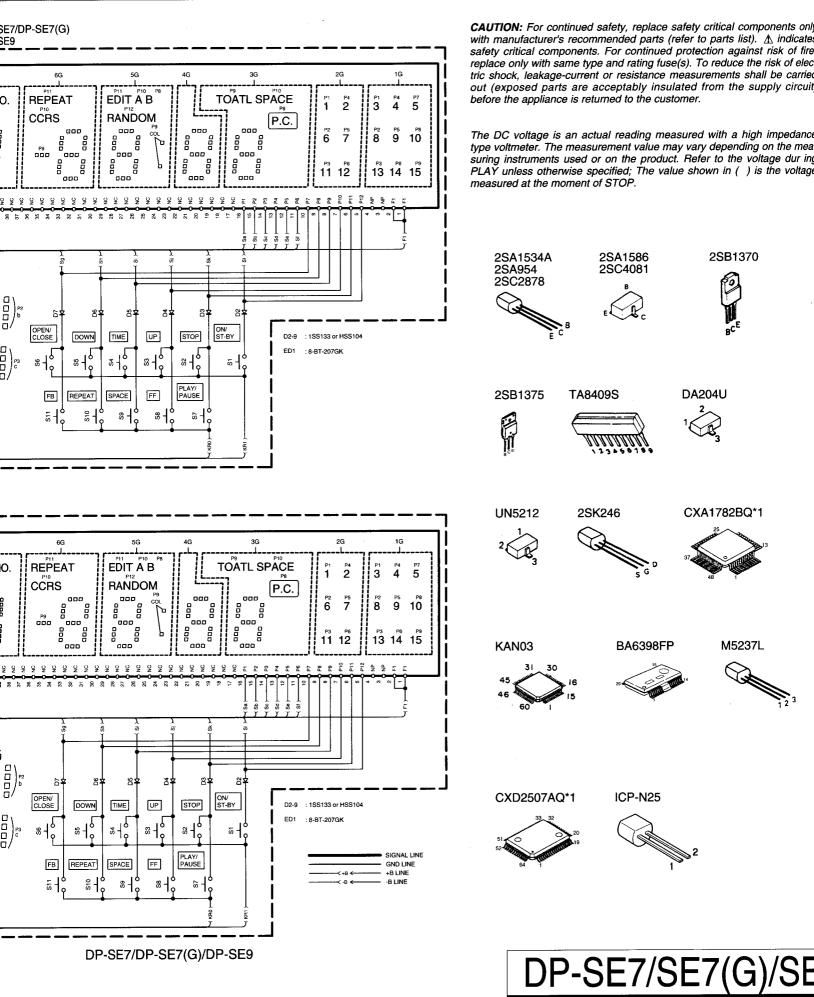












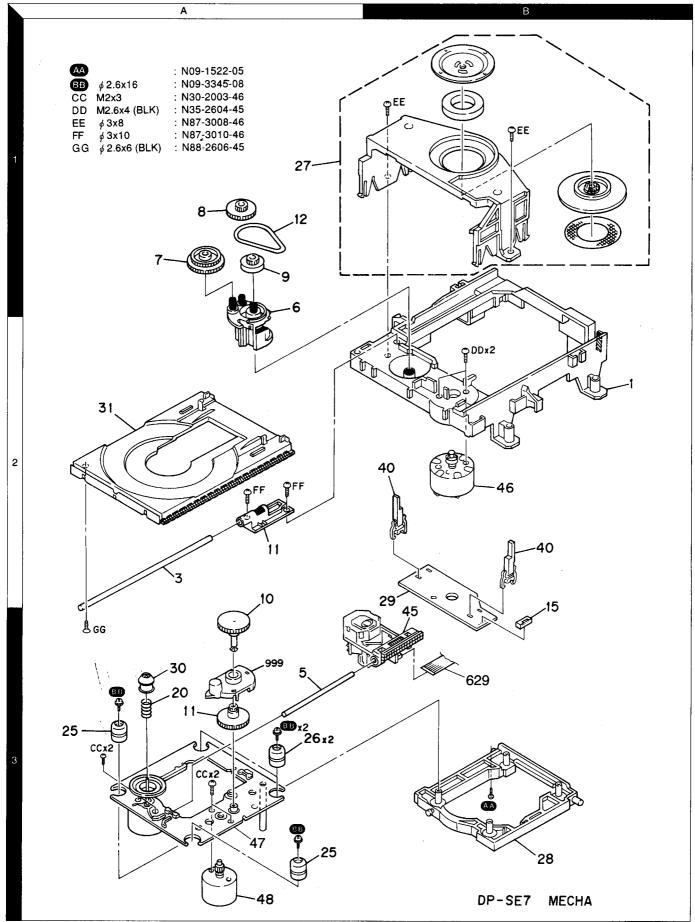
AA

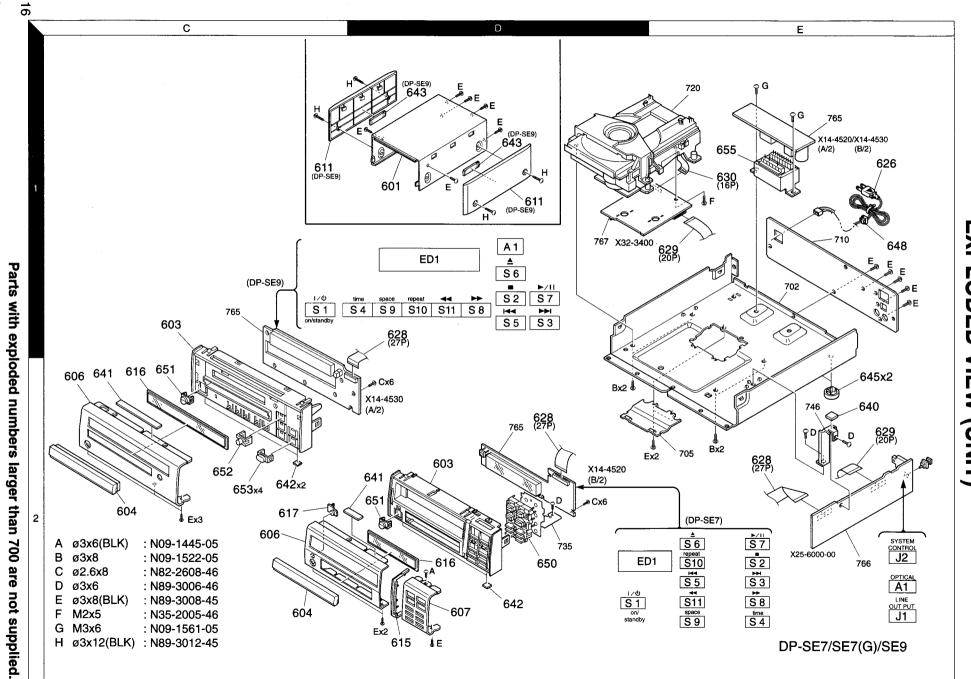
AB

AC

ΑD

EXPLODED VIEW (MECHANISM)





Ref. No

603 604

606 606

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△ 655

S1

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∆ 648

Parts without Parts No. are not supplied

ress Parts

2D 2C

2Č

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2D

2D

2D

2D

2C

1E

1E

1Ē

1E

2E

2D

2E 1E

2D

2D

1E 1E

1D 1C

2C 2C

1D

2C

1E

1E

2D.2E

1E.2E

2D.2E

1E,2E

Les articles non mentionnes dans le Parts No, ne sont pas fournis.

Parts No.

A01-3321-01

A22-1778-11

A29-0872-03

A60-1199-13

A60-1200-03

A60-1298-03

B07-2363-04

B10-2372-03

B12-0318-04

B46-0328-03

E30-2592-15

E30-2650-05

E30-2721-05

E35-1983-05

E35-1984-05

E35-1985-05

G11-2283-04

G11-2284-04

G11-2342-04

H10-7355-02

H10-7356-02 H12-2359-04

H25-1579-04

H25-1581-04

H25-1620-04

H50-2498-04

H50-2500-04

H50-2566-04

J02-0370-05

J42-0083-05 J61-0307-05

K29-6743-03

K29-6744-04

L07-2437-05

S74-0065-05

A01-3465-01

A22-1777-01

A29-0871-03

A60-1266-02

A50-1303-02

B10-2370-03

E30-2592-15

E30-2721-05

E35-1983-05

E35-1984-05

* L07-2436-05

* L07-2505-05

*

*

* A60-1345-03

Description

27P

20P

16P

POWER

POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE

DP-SE7/SE7(G)

PANEL (GOLD)

ESCUTCHEON

FRONT GLASS

WARRANTY CARD

AC POWER CORD

AC POWER CORD

AC POWER CORD

PACKING FIXTURE

PROTECTION BAG

PROTECTION BAG

PROTECTION BAG

ITEM CARTON CASE

ITEM CARTON CASE

ITEM CARTON CASE

WIRE BAND

LEAF SWITCH

SUB PANEL

SIDE PLATE

FRONT GLASS

FLAT CABLE

FLAT CABLE

AC POWER CORD

AC POWER CORD

PANEL

PANEL

DP-SE9

METALLIC CABINET

KNOB

KNOB

POWER CORD BUSHING

POWER TRANSFORMER

POWER TRANSFORMER

POWER TRANSFORMER

INDICATOR

FLAT CABLE

FLAT CABLE

FLAT CABLE

CUSHION

CUSHION

CUSHION

SUB PANEL

PANEL

PANEL

PANEL

PANEL

METALLIC CABINET

Teile ohne Parts No. werden nicht geliefert.

* New Parts

Ø

Re-marks

MT1T2E

MT1EK

T2

ME

T1T2

T1T2

T1T2

MEK

MT1T2E

T1T2E

Ť2

ΕK

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No, ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.



Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- mark
630	1E		E35-1985-05	FLAT CABLE 16P		
641 642 643	2C 2C 2C		G11-2352-04 G11-2325-04 G11-2353-04	CUSHION PANEL CUSHION FOOT CUSHION SIDE PLATE		
- - - -		*	H10-7353-02 H10-7354-02 H12-2356-04 H25-1579-04 H25-1581-04	POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE PACKING FIXTURE PROTECTION BAG PROTECTION BAG	T E T	
- -		*	H25-1620-04 H50-2495-04 H50-2496-04	PROTECTION BAG ITEM CARTON CASE ITEM CARTON CASE	M ME T	
645 648 -	2E 1E		J02-0370-05 J42-0083-05 J61-0307-05	FOOT POWER CORD BUSHING WIRE BAND	,	
651 652 653	2C 2C 2C		K29-6741-04 K29-6742-04 K29-6766-04	KNOB POWER KNOB KNOB		
655 655	1E 1E	*	L07-2436-05 L07-2437-05	POWER TRANSFORMER POWER TRANSFORMER	M TE	
S1			S74-0065-05	LEAF SWITCH		
	,	T.	DISPLAY	(UNIT (X14-45xx-xx)		<u></u>
C1 C2			CE04KW1C332M C90-3209-05	ELECTRO 3300UF 16WV ELECTRO 10UF 6.3WV		
CN1 CN2 J1			E40-4632-05 E40-9965-05 E03-0148-05	PIN ASSY FLAT CABLE CONNECTOR AC OUTLET	к	
S1 -11			S70-0031-05	TACT SWITCH		
D1 D2 -7 D2 -7 D8 ,9 D8 ,9			KBP02ML-6127 HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		7
ED1 IC1			8-BT-207GK ICP-N25	INDICATOR TUBE ANALOGUE IC		
A1 A1			W02-2537-05 W02-2561-05	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE		9 7
	,	,	DECK	UNIT (X25-6000-xx)		
C1 C2 C3 C5 C6			CE04KW1H101M CK73FB1H103K CE04KW1H100M CE04KW1H010M CE04KW1A221M	ELECTRO		
C7 C8 C9 C10 C11			CK73FB1H473K CE04KW1H010M CE04KW1A101M CE04KW0J331M CE04KW1A101M	CHIP C 0.047UF K ELECTRO 1.0UF 50WV ELECTRO 100UF 10WV ELECTRO 330UF 6.3WV ELECTRO 100UF 10WV		
C12			CE04KW0J331M	ELECTRO 330UF 6.3WV		

L : Scandinavia	
Y: PX(Far East,	Hawaii)

Y: AAFES(Europe)

K: USA

P: Canada T: Europe E: Europe

X: Australia M: Other Areas

R: Mexico 7: DP-SE7 G: Germany 9: DP-SE9

L : Scandinavia

Y: AAFES(Europe)

K: USA Y: PX(Far East, Hawaii) T : Europe

P: Canada E: Europe X: Australia M: Other Areas

R: Mexico

20P

T1: GRAY G: Germany T2: GOLD

A indicates safety critical components.

ME

⚠ indicates safety critical components.

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

0

Ref. No Add- ress		New Parts	Parts No.		escription		Desti- nation	Re- marks
C13 C14 -16 C17 C18 ,19 C20			CE04KW1A101M CK73FB1E104K CK73FB1H103K CC73FSL1H150J CK73FB1E104K	ELECTRO CHIP C CHIP C CHIP C CHIP C	100UF 0.10UF 0.010UF 15PF 0.10UF	10WV K K J K		
C21 -26 C23 -26 C27 ,28 C27 ,28 C29 ,30			CC73FSL1H101J CC73FSL1H221J CQ93FMG1H272J CQ93FMG1H332J CQ93FMG1H391K	CHIP C CHIP C MYLAR MYLAR MYLAR	100PF 220PF 2700PF 3300PF 390PF	J J J		7 9 9 7
C31 ,32 C33 ,34 C35 ,36 C39 C40			C90-3749-05 CQ93FMG1H471J CK73FB1H103K CE04KW0J331M CK73FB1E104K	ELECTRO MYLAR CHIP C ELECTRO CHIP C	47UF 470PF 0.010UF 330UF 0.10UF	16WV J K 6.3WV K		9
C41 C42 C43 C44 C46			CE04KW1A101M CK73FB1E104K CK73FB1H103K CE04KW1A101M CK73FB1H103K	ELECTRO CHIP C CHIP C ELECTRO CHIP C	100UF 0.10UF 0.010UF 100UF 0.010UF	10WV K K 10WV K		9 9 9
C47 C48 C49 C50 C51 ,52			CK73FB1E104K CK73FB1H103K CE04KW1A101M CC73FCH1H330J CC73FSL1H221J	CHIP C CHIP C ELECTRO CHIP C CHIP C	0.10UF 0.010UF 100UF 33PF 220PF	K K 10WV J J		9
C53 ,54 C55 C56 C57 C58 -60			CC73FSL1H221J CK73FB1H103K CC73FSL1H101J CC73FSL1H220J CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C	220PF 0.010UF 100PF 22PF 0.010UF	J K J K		9
C61 ,62			CC73FSL1H101J	CHIP C	100PF	J		
CN1 CN2 CN3 J1 J2			E40-4296-05 E40-9875-05 E40-9966-05 E63-0122-05 E08-0312-05	FLAT CABLE COI FLAT CABLE COI FLAT CABLE COI PHONO JACK RECTANGULAR	NNECTOR NNECTOR	_E		
P1			J21-5845-04	MOUNTING HAR	DWARE			
X1			L77-2217-05	CRYSTAL RESO	NATOR(16.9	344MHZ)		
R1 R2 R3 ,4 R5 R7			RK73FB2A472J RK73FB2A103J RK73FB2A181J RK73FB2A221J RK73FB2A203J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 10K 180 220 20K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W		
R8 R9 R10 R11 R12			RK73FB2A432J RK73FB2A181J R92-1867-05 R92-1868-05 RK73FB2A103J	CHIP R CHIP R METAL METAL CHIP R	4.3K 180 12K 4.3K 10K	J 1/10W J 1/10W F 1/10W F 1/10W J 1/10W		
R13 R14 R15 R16 R17			RK73FB2A101J RK73FB2A100J RK73FB2A221J RK73FB2A510J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 10 220 51 100	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W		

L : Scandinavia
Y: PX(Far East, Hawaii)
Y: AAFES(Europe)

K: USA T: Europe

E: Europe X : Australia M : Other Areas

P: Canada

R: Mexico

7: DP-SE7 G: Germany 9: DP-SE9

⚠ indicates safety critical components.

* New Parts

Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

P-SE7/SE7(G)/SE9

Ref. No	Add- ress	New Parts	Parts No.	1	Description				Re- marks	
R18 R19 -30 R27 -30 R31 ,32 R33 ,34			RK73FB2A103J RK73FB2A103J RK73FB2A332J RK73FB2A472J RK73FB2A152J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 10K 3.3K 4.7K 1.5K	j	1/10W 1/10W 1/10W 1/10W 1/10W		7 9	
R35 ,36 R37 ,38 R39 ,40 R41 ,42 R43 ,44			RK73FB2A103J RK73FB2A104J RK73FB2A102J RK73FB2A101J RK73FB2A122J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 100K 1.0K 100 1.2K	J	1/10W 1/10W 1/10W 1/10W 1/10W			
R45 ,46 R47 R48 R49 R50 -52			RK73FB2A102J RK73FB2A2R2J RK73FB2A101J RK73FB2A240J RK73FB2A471J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 2.2 100 24 470	J J J j	1/10W 1/10W 1/10W 1/10W 1/10W		9 9 9 9	
R53 -56 R57 R58 ,59 R60 ,61 R62 -74			RK73FB2A472J RK73FB2A105J RK73FB2A223J RK73FB2A472J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 1.0M 22K 4.7K 47K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		9	
R75 R76 ,77 R78 ,79 R80 R81			RK73FB2A104J RK73FB2A473J RK73FB2A472J RK73FB2A103J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 47K 4.7K 10K 47K	<u> </u>	1/10W 1/10W 1/10W 1/10W 1/10W			
R82 -84 R85 ,86 R87 -90 R91 -94 R101-104			RK73FB2A101J RK73FB2A331J RK73FB2A104J RK73FB2A472J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 330 100K 4.7K 100)))	1/10W 1/10W 1/10W 1/10W 1/10W		9	
R105 R106 R107,108			RD14GB2E2R2J RD14GB2E1R0J RK73FB2A220J	FL-PROOF RD FL-PROOF RD CHIP R	2.2 1 22	J J	1/4W 1/4W 1/10W			
D1 D2 D3 D3 D4	ļ		1SR154-400 UDZ15B UDZ13B UDZ15B UDZ5.1B	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE					7 9	
D5 D6 ,7 D8 ,9 D10 IC1 ,2			UDZ2.7B DA204U MA111 DA204U M5237L	ZENER DIODE DIODE DIODE DIODE ANALOGUE IC						
IC3 IC4 IC5 IC6 IC7 ,8			PST993D-T UPD78044FGF071 KAN03 AK4324-VF NJM2100M	ANALOGUE IC MI-COM IC CUSTOM IC MOS-IC IC(OP AMPLIFIE	R)				9	
IC9 Q1 Q2 Q2 Q3			TA8409S 2SA954(L,K) 2SB1370 2SB1375 2SA1534A	MOS-IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR						
Q4			DTC124EUA	DIGITAL TRANS	ISTOR				9	

L : Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)

K: USA T: Europe E: Europe

P: Canada X: Australia M: Other Areas R: Mexico 7: DP-SE7 G: Germany 9: DP-SE9

⚠ indicates safety critical components.

Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

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Teile ohne I	Parts N	o. we	erden nicht geliefert.					•
Ref. No	Add- ress	New Parts	Parts No.	D	escription		Dești- nation	Re- marks
Q4 Q5 Q7 ,8 Q9 ,10 Q9 ,10			UN5212 2SK246(Y,GR) 2SC2878(B) DTC124EUA UN5212	DIGITAL TRANSISTOR FET TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR			9	
Q11 ,12 Q11 ,12 Q13 ,14 Q13 ,14			DTA124EUA UN5112 2SA1586(Y,GR) 2SA1611(M5,M6)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR				
A1			W02-1114-05	OSCILLATING MO	DULE			
			CD PLAYE	ER UNIT (X32	2-3400-0	00)		
C1 C2 C3 C4 C5			CK73FB1H223K C92-0083-05 CC73FSL1H180J CC73FCH1H030C CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.022UF 47UF 18PF 3.0PF 0.010UF	K 4WV J C K		
C6 C7 C8 C9 C10			CK73FB1H222K CK73FB1H103K CK73FB1H333K CK73FB1H103K CK73FB1H472K	CHIP C CHIP C CHIP C CHIP C CHIP C	2200PF 0.010UF 0.033UF 0.010UF 4700PF	K K K K		
C11 C12 C13 C14 C15 ,16			C92-0083-05 CC73F\$L1H470J CK73EB1C474K CK73EB1C105K CK73FB1E104K	CHIP C CHIP C CHIP C CHIP C CHIP C	47UF 47PF 0.47UF 1.0UF 0.10UF	4WV J K K K		
C17 C18 C19 C20 C21			C92-0080-05 CK73FB1H333K CK73FB1H102K CC73FSL1H221J CK73FB1H473K	C ELECTOR CHIP C CHIP C CHIP C CHIP C	10UF 0.033UF 1000PF 220PF 0.047UF	4WV K K J K		
C22 C23 C24 C25 ,26 C27			CK73FB1H103K CC73FSL1H101J C92-0080-05 CK73FB1H103K C92-0090-05	CHIP C CHIP C C ELECTOR CHIP C CHIP C	0.010UF 100PF 10UF 0.010UF 22UF	K J 4WV K 6.3WV	-	
C28 ,29 C30 C31 C32 C33 ,34			CK73FB1E104K C92-0041-05 CK73FB1H333K C92-0090-05 CK73FB1E104K	CHIP C CHIP-ELE CHIP C CHIP C CHIP C	0.10UF 10UF 0.033UF 22UF 0.10UF	K 10WV K 6.3WV K		
C35 ,36 C37 C38 C39 C40			CK73FB1H102K CK73FB1H473K CK73FB1H152K CK73FB1H103K CK73FB1H332K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 0.047UF 1500PF 0.010UF 3300PF	K K K K		
C41 C42 C43 C44			CK73EB1C474K C92-0090-05 CK73FB1E104K CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C	0.47UF 22UF 0.10UF 0.010UF	K 6.3WV K K		
CN1 CN2 CN3			E40-9963-05 E40-9964-05 E40-3251-05	FLAT CABLE CONI FLAT CABLE CONI PIN ASSY				

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G: Germany 9: DP-SE9

* New Parts Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis. Teile ohne Parts No. werden nicht geliefert.

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Ref. No	Add- ress	New Parts	Parts No.		Description			Desti- nation	Re- mark
L1			L40-1001-31	SMALL FIXED	INDUCTOR(1	IOUH,K	()		
R1 R2 R3 ,4 R5 R6			RK73FB2A753J RK73FB2A104J RK73FB2A203J RK73FB2A472J RK73FB2A912J	CHIP R CHIP R CHIP R CHIP R CHIP R	75K 100K 20K 4.7K 9.1K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R7 R8 R9 R10 -13 R14			RK73FB2A623J RK73FB2A105J RK73FB2A224J RK73FB2A683J RK73FB2A100J	CHIP R CHIP R CHIP R CHIP R CHIP R	62K 1.0M 220K 68K 10)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R15 R16 R17 R18 R19			RK73FB2A332J RK73FB2A243J RK73FB2A392J RK73FB2A101J RK73FB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.3K 24K 3.9K 100 1.0K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R20 ,21 R22 R23 R24 R25			RK73FB2A334J RK73FB2A473J RK73FB2A101J RK73FB2A392J RK73FB2A682J	CHIP R CHIP R CHIP R CHIP R CHIP R	330K 47K 100 3.9K 6.8K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R26 R27 R28 R29 R30 ,31			RK73FB2A155J RK73FB2A223J RK73FB2A684J RK73FB2A105J RK73FB2A124J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.5M 22K 680K 1.0M 120K) 	1/10W 1/10W 1/10W 1/10W 1/10W		
R32 R33 R34 R35 R36	American Address Addre		RK73FB2A155J RK73FB2A514J RK73FB2A823J RK73FB2A104J RK73FB2A223J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.5M 510K 82K 100K 22K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R37 R38 R39 R40 R41 ,42			RK73FB2A183J RK73FB2A104J RK73FB2A244J RK73FB2A184J RK73FB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	18K 100K 240K 180K 4.7K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R43 R44 R45 R46 R47			RK73FB2A562J RK73FB2A102J RK73FB2A104J RK73FB2A332J RK73FB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	5.6K 1.0K 100K 3.3K 10K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R48 R49 R50 R51 -53 R54			RK73FB2A332J RK73FB2A105J RK73FB2A104J RK73FB2A471J RK73FB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.3K 1.0M 100K 470 4.7K)))	1/10W 1/10W 1/10W 1/10W 1/10W		
R55 R56 R57 R58 VR1			RK73FB2A101J RK73FB2A6R8J RK73FB2A121J RK73FB2A6R8J R32-0049-05	CHIP R CHIP R CHIP R CHIP R SEMI FIXED V	100 6.8 120 6.8 ARIABLE RES	J J J SISTOF	1/10W 1/10W 1/10W 1/10W 1/10W		
VR2 VR3			R32-0048-05 R32-0049-05	SEMI FIXED V SEMI FIXED V					

L: Scandinavia Y: PX(Far East, Hawaii) T: Europe E: Europe Y: AAFES(Europe)

 [⚠] indicates safety critical components.

K: USA

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R: Mexico 7: DP-SE7 G: Germany 9: DP-SE9

 [⚠] indicates safety critical components.

PARTS LIST

	Parts No.		nation	Re- marks
	MA111 DA204U CXA1782BQ*1 CXD2507AQ*1 BA6398FP	DIODE DIODE ANALOGUE IC MOS-IC ANALOGUE IC		
	2SC4081(R.S) 2SA1586(Y.GR) 2SA1611(M5.M6) DTA124EUA UN5112	TRANSISTOR TRANSISTOR IRANSISTOR DIGITAL TRANSISTOR	Austra	
	MEC	MECHANISM (D40-1571-05)		
2B	A10-3325-08	CHASSSIS		
24488 4448	D10-3695-08 D10-3696-08 D12-0156-08 D13-1793-08 D13-1796-08	SHAFT(TABLE GUIDE) SLED SHAFT CAM GEAR (P) GEAR (A)(S)		
24A 2A 2A	D13-1797-08 D16-0713-08 D23-0328-08	GEAR (B)(RP) BELT BEARING		
2B	E40-8051-08	PIN CONNECTOR (PC BORD)5P		
3A	G01-3969-08	SPRING (S) COMPRESSION		
88448 88448	J02-1179-08 J02-1180-08 J19-5768-08 J19-5769-08 J70-0995-08	PUBBER VIBRATION PUBBER VIBRATION HOLDER (MG)(R) ASSY HOLDER (BU) ASSY PC BORD LOADING		-
3A 2A	J90-0846-08 J99-0592-08	RING (LO)(S) CENTER TABLE DISK		
2 8 A	N09-3345-08 N87-3010-46	SCREW (2.6X16) SCREW TAPPING (3X10)		
2 B	874-0075-08	SWITCH LEAF		
8888 8888	125-0061-08 142-0873-08 142-0907-08 142-0875-08	PICKUP ASSY KSS-213C(R) MOTOR ASSY LOADING MOTOR GEAR ASSY(MB) MOTOR GEAR ASSY(MB)		

SPECIFICATIONS

CD player (DP-SE9)		CD player (DP-SE/)	
	Semiconductor laser	Laser	Semiconductor laser
Playing rotation	200 rpm ~ 500 rpm (CLV)	Playing rotation	
Frequency response	4 Hz ~ 20 kHz, ± 1.0 dB		4 Hz ~ 20 kHz, ± 1.0 dB
Signal to noise ratio	More than 100 dB	Signal to noise ratio	More than 100 dB
	More than 95 dB	Dynamic range	
Total harmonic distortion	Less than 0.004 % (at 1 kHz)		Less than 0.004 % (at 1 kHz)
Channel separation	More than 92 dB (at 1 kHz)		More than 92 dB (at 1 kHz)
	Unmeasurable Limit	Wow & Flutter	Unmeasurable Limit
Output level / impedance		Output level / impedance	
Fixed	1.2 V / 1 kΩ	Fixed	1.2 V / 1 kΩ
Digital output		Digital output	
Optical	15 dBm ~ -21 dBm	Optical	15 dBm ~ -21 dBm
•	(wave length 660 nm)		(wave length 660 nm)
General		General	
Power consumption	10 W	Power consumption	10 W
	W : 213 mm		W : 200 mm
	H · 97 mm		H: 77 mm



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

2. Sufficient performance may not be exhibited at extremely cold locations (where water freezes.).

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

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KENWOOD SERVICE CORPORATION

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A indicates safety critical components

H: 77 mm D: 249 mm